

Notice of Allowability

Application No.

09/753,080

Examiner

Ashok B. Patel

Applicant(s)

DUNCAN ET AL.

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/23/2007.

2. ☒ The allowed claim(s) is/are 1, 4-7 and 10-12.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.

NATHAN J. FLYNN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

DETAILED ACTION

1. Claims 1, 4-7, and 10-12 are allowed. Claims 2, 3, 8 and 9 are cancelled.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lindsay G. McGuinness on 02/023/2007.

3. The application has been amended as follows:

B. In the claims:

- a. Claims 2, 3, 8 and 9 are cancelled.
- b. Claim 1. (currently amended) A method for classifying a remote method invocation (RMI) from a client system that initiates connections to a remote server object via a classifying router using a client and underlying remote method invocation transport code, the method comprising:

detecting when a connection to the classifying router ~~carrying high value data~~ for the remote method invocation is to be created on a communication channel; detecting includes providing a stub to calling applications, detecting when applications call the stub, and executing an RMI routine based on a call by an application;

Art Unit: 2154

using a custom socket factory to obtain flow information associated with the detected connection to the classifying router, and to generate a socket therefore, the socket having a socket number associated therewith;

using a side channel, different from the communication channel, to communicate flow information to the classifying router for assigning to the flow a quality of service level, the flow information including the socket number, associated with the detected connection to a the classifying router prior to remote method invocation; and

incorporating this flow information into a differentiated services classification subsystem of the classifying router by mapping the socket number to a ~~priority~~ the quality of service level associated with the remote invocation to enable proper classification of the remote method invocation when it is later received.

c. Claim 6. (currently amended) The method of claim 1, further comprising:

detecting an identity of the client making the remote method invocation, the flow information further containing this detected identity, and wherein the ~~priority~~ quality of service is related to the detected identity.

d. Claim 7. (currently amended) An apparatus for classifying a remote method invocation (RMI) from a client system that initiates connections to a remote server object via a classifying router using a client and underlying remote method invocation transport code, the apparatus comprising:

a module configured to detect when a connection to the classifying router ~~carrying high value data~~ for the remote method invocation is to be created; to

Art Unit: 2154

provide a stub to calling applications, to detect when applications call the stub, and to execute an RMI routine based on a call by an application;

a module configured to use a custom socket factory to obtain flow information associated with the detected connection to the classifying router, and to generate a socket therefore, the socket having a socket number associated therewith;

a module configured to use a side channel to communicate flow information to the classifying router for assigning to the flow a quality of service level, the flow information including the socket number, associated with the detected connection to a the classifying router prior to establishment of the connection; and

a module configured to incorporate this flow information into a differentiated services classification subsystem of the classifying router by mapping the flow information to ~~a priority~~ the quality of service level to enable proper classification of the remote invocation method when the remote method invocation is later invoked ..

REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

Applicant's arguments that neither Moore nor Katsube discloses the claimed limitations as stated in the response dated 08/02/2006, and detecting comprising providing a stub to calling application; detecting when applications call the stub and executing a RMI routine based on a call by an application when taken in the context of claims as a whole are persuasive. None of the prior arts of record teach or suggest the claimed limitations.

Art Unit: 2154

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok B. Patel whose telephone number is (571) 272-3972. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached o If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abp
